Recombinant GRHL1 protein (His tag)

Catalog Number	548400
Synonyms	Mammalian grainyhead; NH32; Transcription factor CP2-like 2; Transcription factor LBP-32
Species	Human
Expression System	E. coli
Accession	Q9NZI5
Molecular Weight	Predictes a molecular mass of 28.05 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	251-477
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 251-477 aa (Q9NZI5) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human GRHL1 Protein Fragment (aa 251-477) - A high-quality, stable fragment of the Grainyhead-like protein 1 homolog, specifically designed for structural and biochemical studies. This 227-amino acid fragment maintains optimal solubility while representing a key region of this important epithelial transcription factor. Grainyhead-like protein 1 homolog (GRHL1) is a crucial transcription factor involved in epithelial development and maintenance of the skin barrier. The full-length protein binds directly to the consensus DNA sequence 5'-AACCGGTT-3' and functions as an important regulator of DSG1 in hair anchorage and epidermal differentiation. GRHL1 plays a role in glucose homeostasis and insulin signaling, and different isoforms exhibit distinct functions - isoform 1 acts as a transcription activator while isoform 2 may function as a repressor. The protein is localized to the nucleus, consistent with its role in transcriptional regulation. The selected fragment (aa 251-477) represents a stable, soluble unit ideal for investigating the structural and functional properties of this biologically significant protein.